Trend Macrolytics, LLC
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# Data Insights: Covid-2019 Monitor

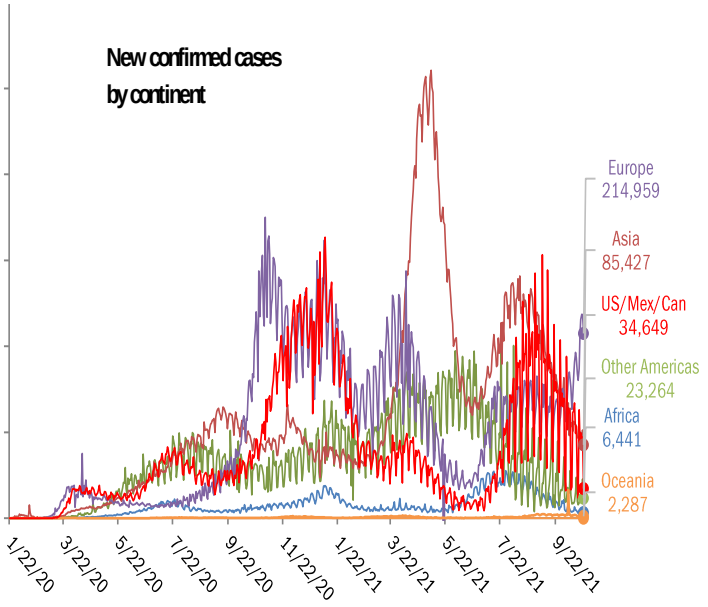
Sunday, October 24, 2021

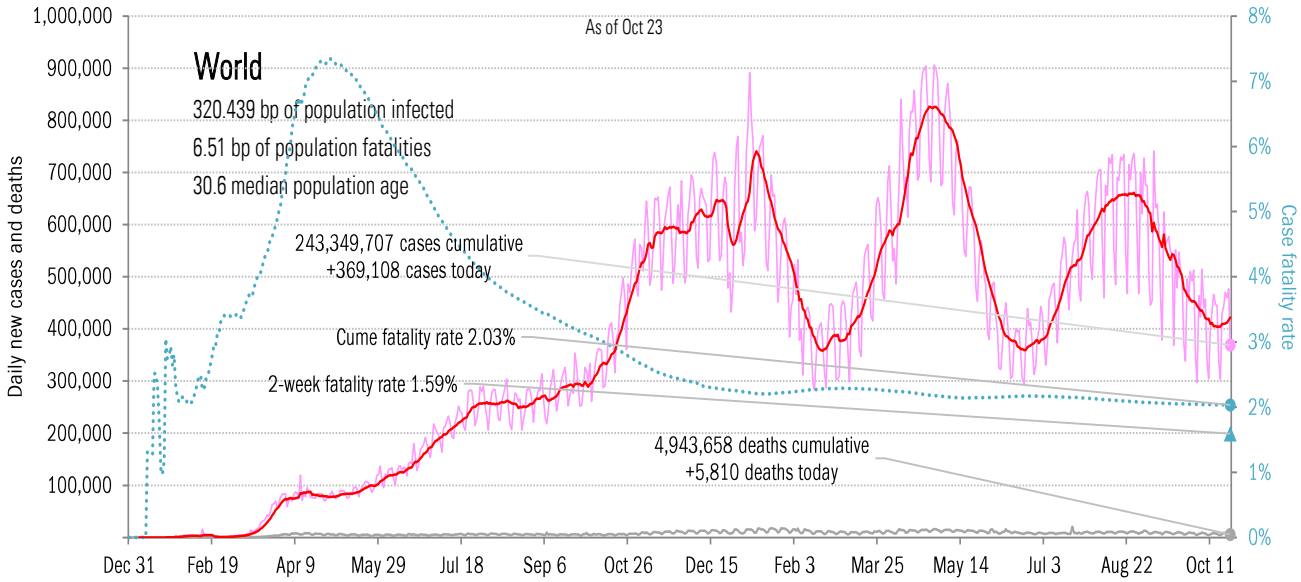
## The global scorecard

Cases: 7-day average and daily  Deaths: Daily

**The worst ten countries**

| New cases | | New Deaths | |
|---|---|---|---|
| United Kingdom | +45,102 | Russia | +1,048 |
| Russia | +36,728 | United States | +562 |
| United States | +29,079 | India | +561 |
| Turkey | +26,217 | Ukraine | +510 |
| Ukraine | +24,179 | Romania | +446 |
| India | +15,906 | Brazil | +318 |
| Romania | +15,261 | Mexico | +306 |
| Germany | +13,863 | Turkey | +217 |
| Brazil | +11,716 | United Kingdom | +135 |
| Thailand | +9,742 | Iran | +124 |
| | +227,793 | | +4,227 |
| World | +369,108 | World | +5,810 |
| Top ten | 62% | Top ten | 73% |




Source: Johns Hopkins, TrendMacro calculations

**For more information contact us:**
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# The US scorecard

Cases: 7-day average and daily  Deaths: Daily

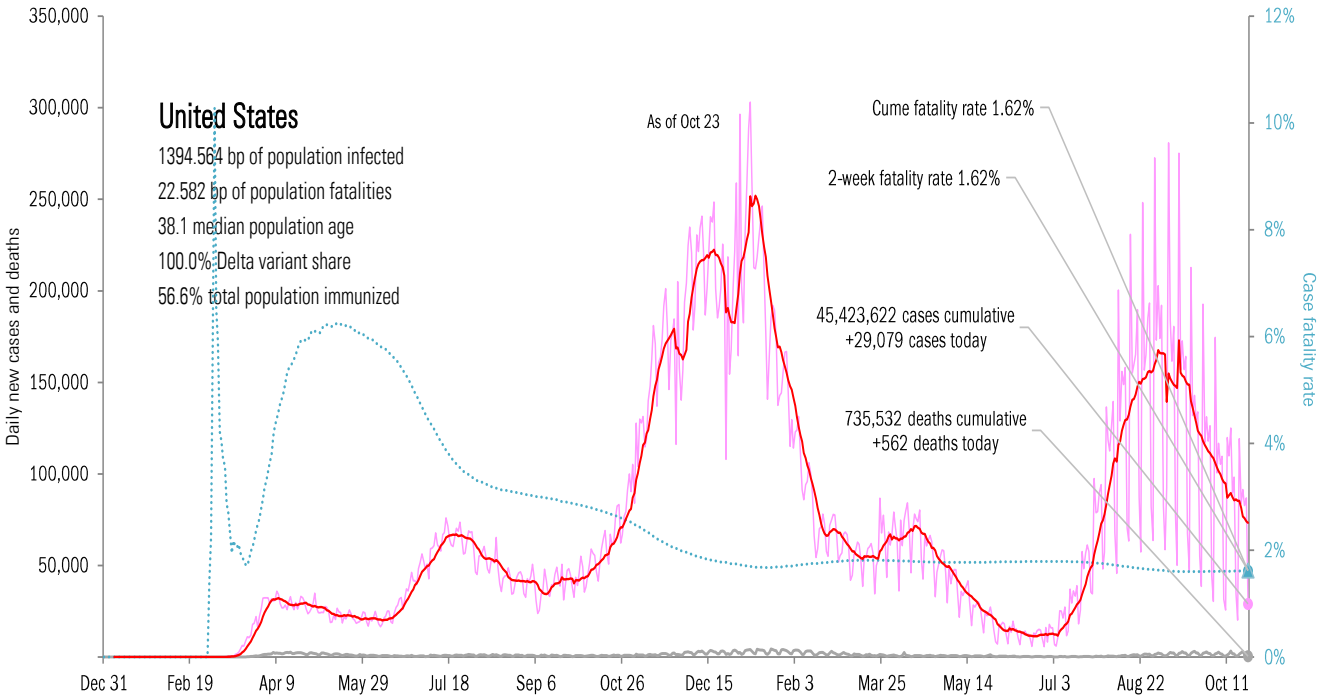
## The ten worst US states

| New cases | | New Deaths | | New in hospital | | Cume cases | | Cume deaths | | Cume in hospital | | Hospital use | | ICU use | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PA | +4,186 | TX | +177 | NM | +31 | CA | 4,850,807 | CA | 71,341 | TX | 371,712 | MA | 87% | UT | 132% |
| NY | +3,630 | FL | +135 | TX | +20 | TX | 4,209,200 | TX | 70,202 | FL | 316,474 | PA | 85% | ID | 91% |
| OH | +3,466 | PA | +59 | AZ | +14 | FL | 3,674,819 | FL | 58,535 | CA | 306,373 | RI | 84% | NM | 89% |
| AZ | +3,144 | AZ | +30 | CO | +12 | NY | 2,530,860 | NY | 56,199 | NY | 161,764 | MD | 84% | AL | 89% |
| TX | +2,525 | NY | +30 | NJ | +11 | IL | 1,680,908 | PA | 30,962 | GA | 158,061 | CT | 83% | KY | 89% |
| FL | +2,081 | AL | +28 | OH | +11 | GA | 1,625,399 | GA | 28,519 | OH | 120,823 | NY | 83% | TX | 88% |
| CA | +1,861 | NJ | +20 | MT | +8 | PA | 1,534,495 | IL | 28,023 | PA | 114,229 | MO | 82% | MT | 86% |
| MO | +1,152 | DE | +19 | MI | +7 | OH | 1,519,304 | NJ | 27,848 | KY | 110,239 | MN | 81% | CO | 86% |
| NJ | +1,140 | CA | +13 | RI | +7 | NC | 1,463,410 | OH | 23,955 | IL | 103,564 | MI | 81% | NE | 86% |
| AL | +945 | AR | +12 | AK | +6 | TN | 1,272,558 | MI | 23,309 | MI | 89,148 | OR | 81% | AK | 85% |
| | +24,130 | | +523 | | +127 | | 24,361,760 | | 418,893 | | 1,852,387 | | | | |
| All states | +29,079 | | +562 | | -381 | All states | 45,423,622 | | 735,532 | | 3,305,432 | All states | 70% | | 67% |
| Top ten | 83% | | 93% | | -33% | Top ten | 54% | | 57% | | 56% | Median | 77% | | 80% |

*Some states not reporting*

## Five most improved US states

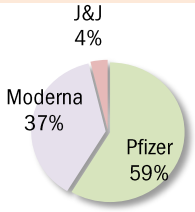
| Fewer daily cases | | Fewer new deaths | | Fewer new hospitalizations | | Most pop immunity growth | |
|---|---|---|---|---|---|---|---|
| MI | -9,178 | OH | -339 | KY | -74 | AL | +10 bp |
| FL | -6,561 | GA | -175 | CA | -54 | AR | +10 bp |
| CA | -4,613 | MI | -136 | NH | -23 | AZ | +10 bp |
| IL | -2,969 | CA | -113 | NY | -22 | CO | +10 bp |
| CO | -2,846 | NC | -69 | DC | -21 | CT | +10 bp |




Source: Johns Hopkins, Dept. of Health and Human Services, CDC, TrendMacro calculations

# Rolling out the vaccines in the US and the world

| Administered | Cumulative | | | | Today |
|---|---|---|---|---|---|
| Doses | 424,490,345 | | | | +0.917 million |
| | One dose | % Pop | Immune | % pop | New immune today |
| Total population | 225,782,643 | 68% | 195,394,506 | 58% | +0.227 million |
| Age 12 to 17 | 14,133,455 | 59% | 11,698,890 | 49% | +0.021 million |
| Age 18 to 64 | 156,162,973 | 77% | 134,861,894 | 66% | +0.174 million |
| Age 65 and over | 54,383,654 | 99% | 47,925,801 | 88% | +0.030 million |




| State |
|---|
| At least partial immunity as % population |
| Full immunity as % population |

Best
Middle
Worst

Every American >18 immune in
**76 days**
by Jan 6, 2022

70.8% of population >18 immunized
16.2% previously tested positive
**87.0%** vs 60% adult herd immunity

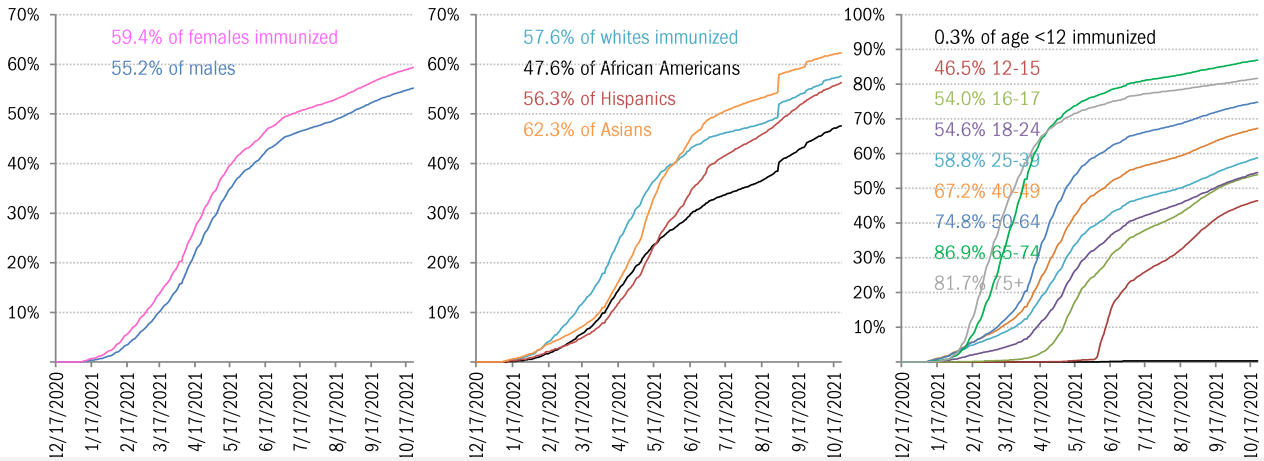
As of Oct 23

| Immunity | Full | Partial |
|---|---|---|
| US | 56.6% | 65.5% |
| UK | 66.7% | 72.7% |
| France | 67.5% | 75.5% |
| Spain | 79.6% | 81.2% |
| Germany | 65.6% | 68.5% |
| Italy | 70.8% | 77.0% |
| Australia | 60.0% | 72.7% |
| Israel | 65.0% | 70.7% |
| Canada | 73.5% | 78.0% |
| Japan | 69.0% | 76.5% |
| Africa | 5.4% | 8.2% |
| India | 21.5% | 51.3% |
| Brazil | 53.6% | 73.9% |
| China | 72.6% | 76.2% |

Global data differs due to sources, timing

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| AK | | | | | WI | | | | | ME |
| 58.9% | | | | | 62.3% | | | | | 75.8% |
| 52.2% | | | | | 57.9% | | | | | 70.1% |
| WA | ID | MT | ND | MN | IL | MI | | NY | VT | NH |
| 68.9% | 48.6% | 56.3% | 52.8% | 64.7% | 69.6% | 57.7% | | 73.5% | 79.1% | 73.9% |
| 63.0% | 43.3% | 49.9% | 45.8% | 59.5% | 54.4% | 53.2% | | 66.1% | 70.8% | 62.6% |
| OR | NV | WY | SD | IA | IN | OH | PA | NJ | MA | |
| 68.0% | 62.7% | 50.3% | 61.1% | 59.2% | 53.4% | 55.5% | 76.3% | 74.3% | 79.4% | |
| 62.5% | 52.4% | 43.5% | 52.2% | 55.2% | 49.6% | 51.5% | 60.0% | 65.9% | 69.3% | |
| CA | UT | CO | NE | MO | KY | WV | VA | MD | CT | RI |
| 73.9% | 60.7% | 67.1% | 60.6% | 56.3% | 62.4% | 48.8% | 70.4% | 72.5% | 78.2% | 77.4% |
| 60.7% | 53.0% | 61.1% | 55.9% | 49.4% | 54.4% | 41.0% | 62.5% | 65.8% | 70.3% | 70.4% |
| | AZ | NM | KS | AR | TN | NC | SC | DC | DE | |
| | 60.8% | 75.5% | 61.8% | 57.5% | 54.2% | 62.9% | 57.0% | 73.4% | 68.5% | |
| | 52.7% | 65.6% | 52.8% | 47.6% | 47.3% | 52.2% | 49.5% | 61.9% | 59.5% | |
| | | | OK | LA | MS | AL | GA | | | |
| | | | 58.7% | 53.5% | 51.7% | 54.0% | 56.4% | | | |
| | | | 49.6% | 47.3% | 45.3% | 44.4% | 47.6% | | | |
| HI | | | TX | | | | | FL | | PR |
| 78.3% | | | 60.9% | | | | | 68.6% | | 81.7% |
| 59.5% | | | 52.9% | | | | | 59.3% | | 73.2% |

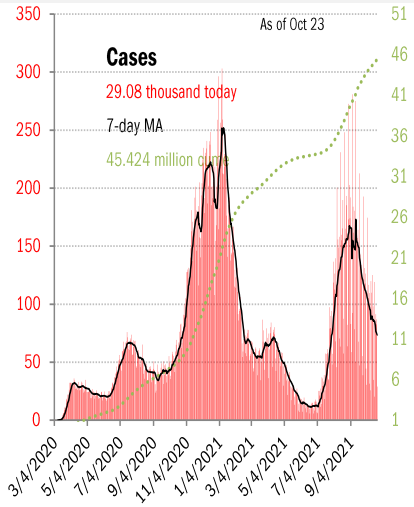
## The demographics of US vaccination

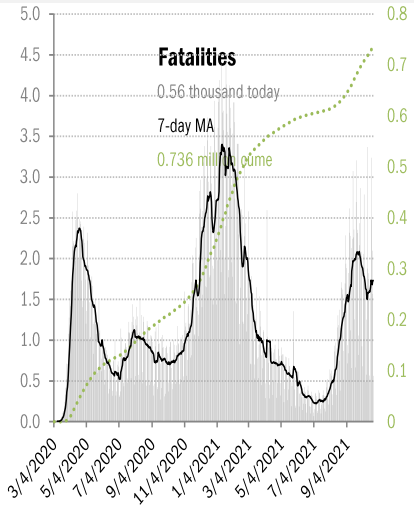


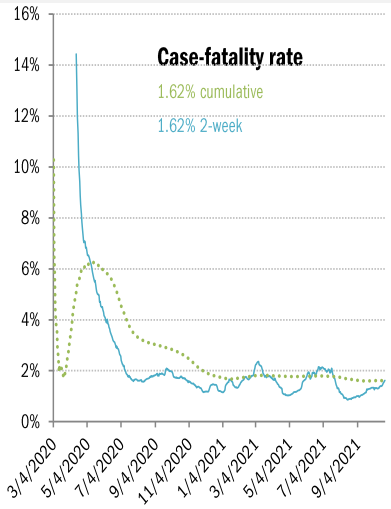

Source: CDC, CDC, Our World in Data, TrendMacro calculations

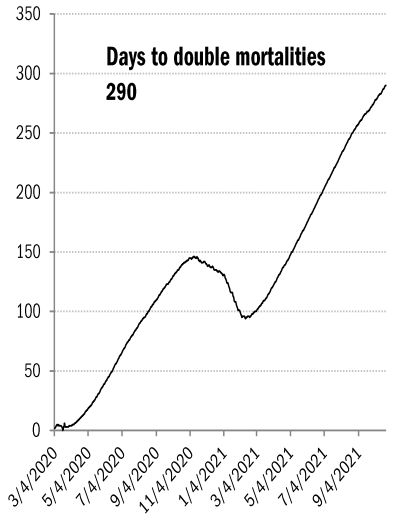
# US deep-dive

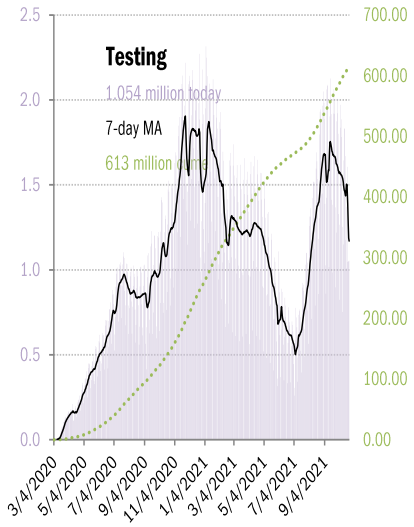
National and state-by-state data do not line up because of different sources

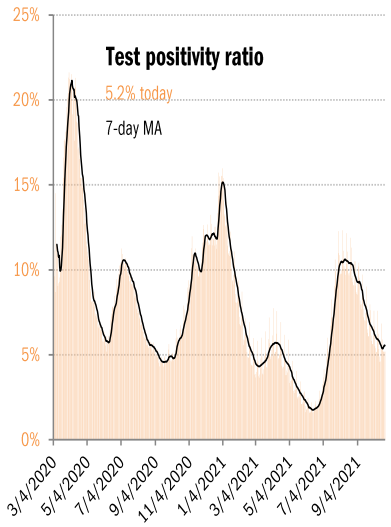


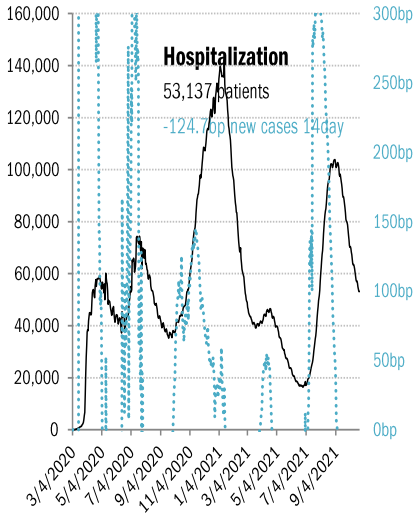



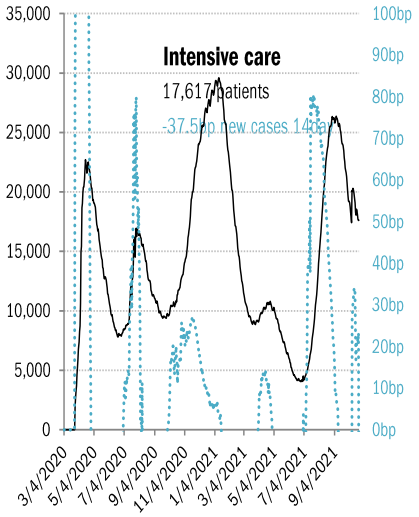



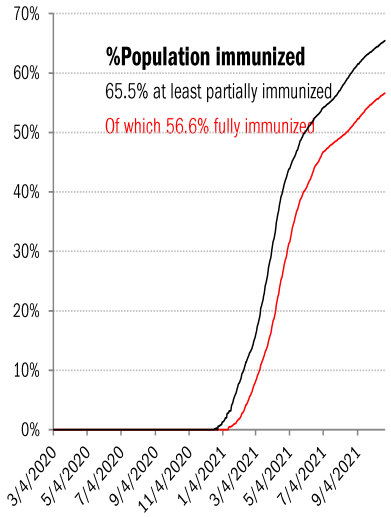



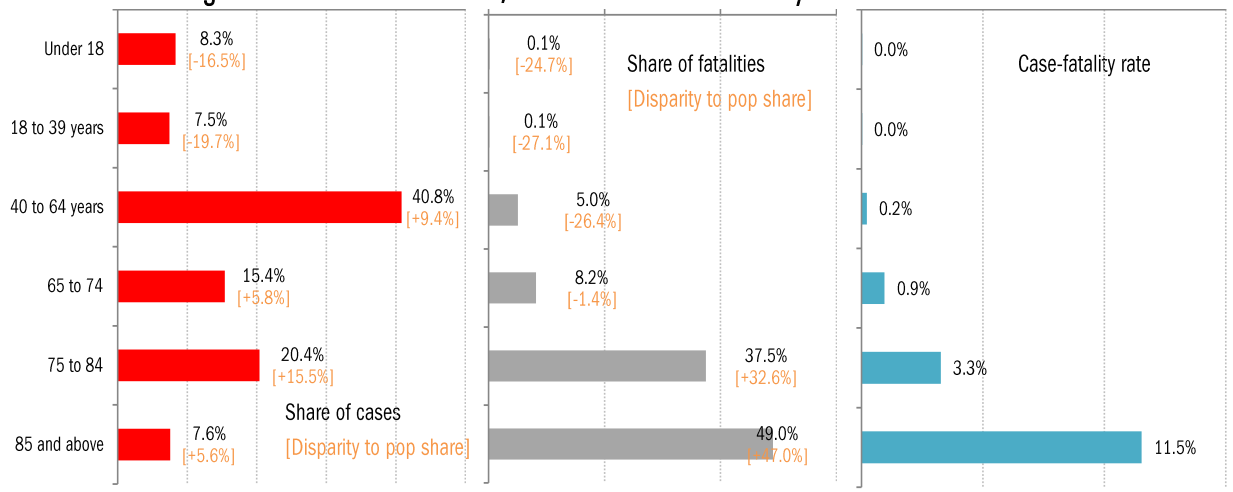

Source: Johns Hopkins, Covid Act Now, TrendMacro calculations

## US deep-dive on the demographics of age, race and health

*Updates weekly on Sundays*

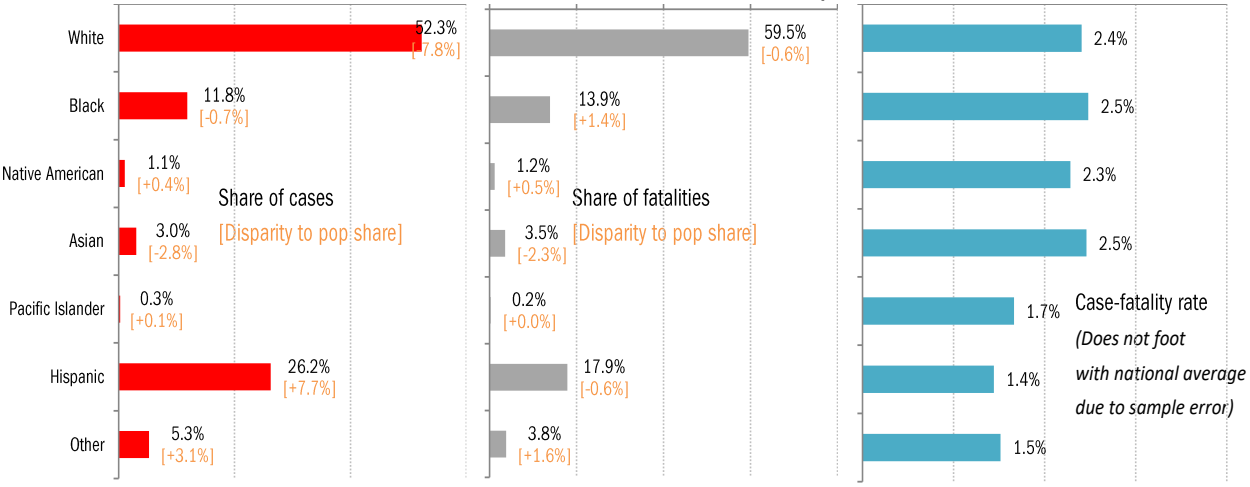
### Age distribution of US cases, fatalities and case-fatality rates

Cumulative



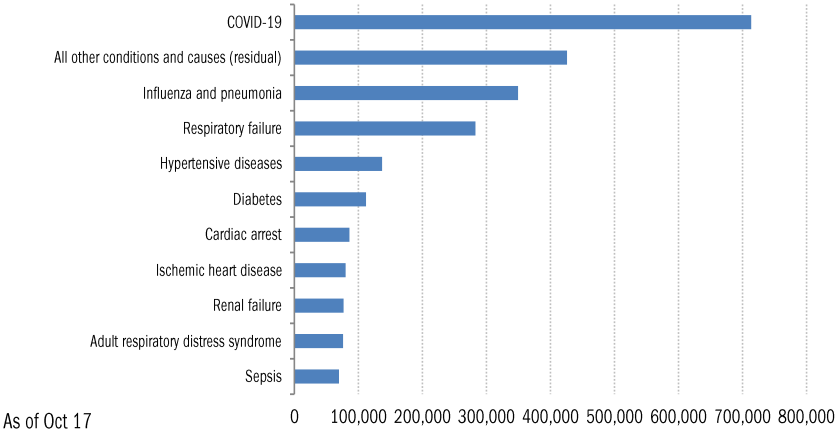

### Racial distribution of US cases, fatalities and case-fatality rates

Cumulative




### Comorbidities

Top-ten joint causes of Covid mortalities, cumulative




As of Oct 17

For over 5% of these deaths, COVID-19 was the only cause mentioned on the death certificate. For deaths with conditions or causes in addition to COVID-19, on average, there were 4.0 additional conditions or causes per death.

Source: Distributions CDC, Comorbidities CDC, TrendMacro calculations

## Recommended reading

Biden delays the release of remaining J.F.K. assassination records, citing the pandemic.
Vimal Patel
*New York Times*
October 23, 2021

Spain will reimburse thousands of people fined during 2020 lockdown.
Raphael Minder
*New York Times*
October 23, 2021

Their Jobs Made Them Get Vaccinated. They Refused.
Sarah Maslin Nir
*New York Times*
October 24, 2021

New Zealand Wants a 90% Vaccination Rate. Its Street Gangs May Hold the Key.
Natasha Frost
*New York Times*
October 24, 2021

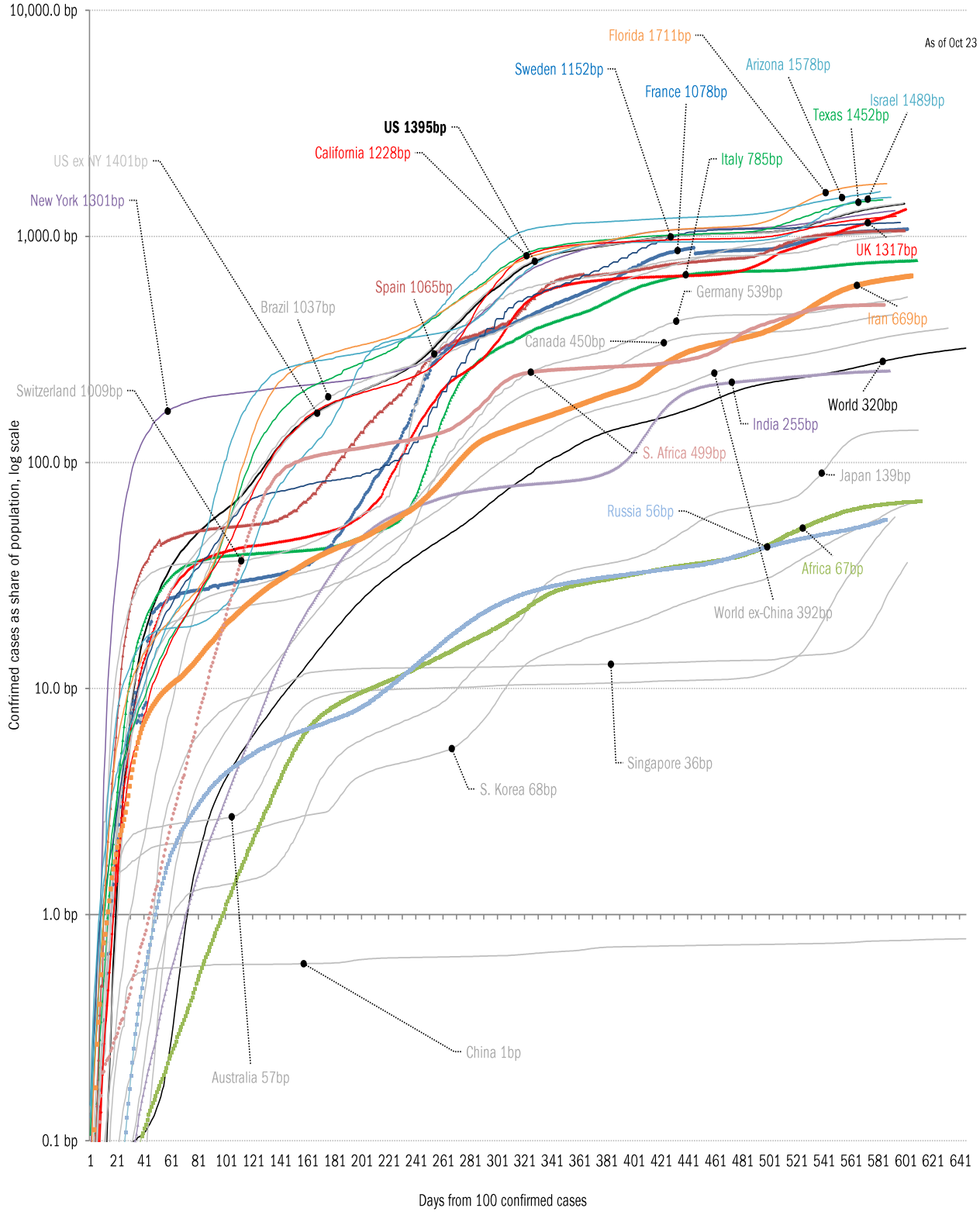
The Unlikely Outsiders Who Won the Race for a Covid-19 Vaccine
Gregory Zuckerman
*Wall Street Journal*
October 23, 2021

## Meme of the day

Source: Our beloved clients, Power Line blog "The Week in Pictures" and CTUP

## The coronavirus case accelerometer… tracking the world's infection curves

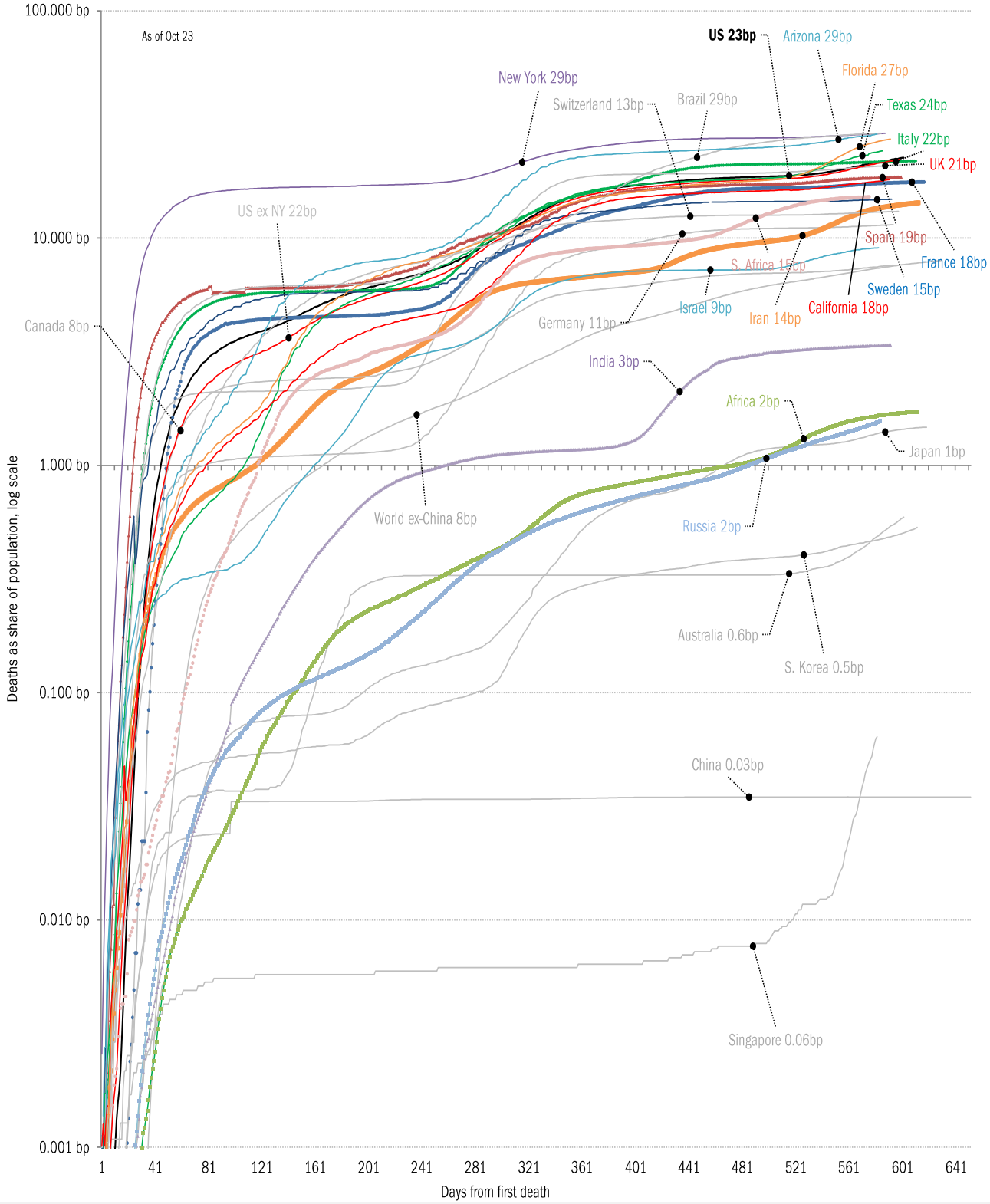
*Share of infected population from first day with 100 confirmed cases, log scale*




Source: Johns Hopkins, TrendMacro calculations

The coronavirus mortality accelerometer … tracking the world's fatality curves

*Share of deceased population from day of first fatality, log scale*

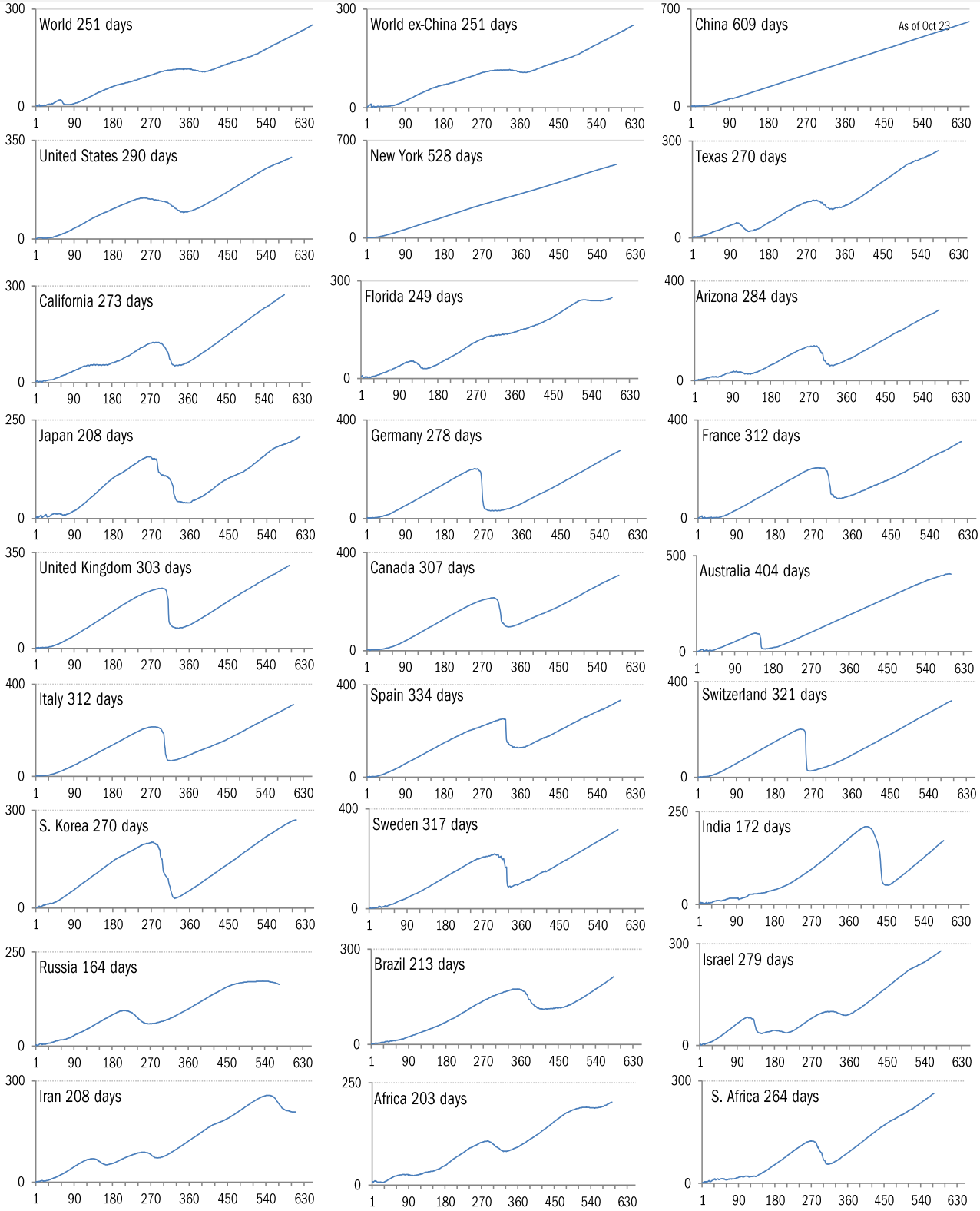



Source: Johns Hopkins, TrendMacro calculations

## "Exponential"? Our most reliable evidence of the rate of spread of Covid-2019

*Vertical: days to double deaths  Horizontal: days from first death*

Flat indicates exponential spread  Declining indicates supra-exponential spread  Rising indicates sub-exponential spread

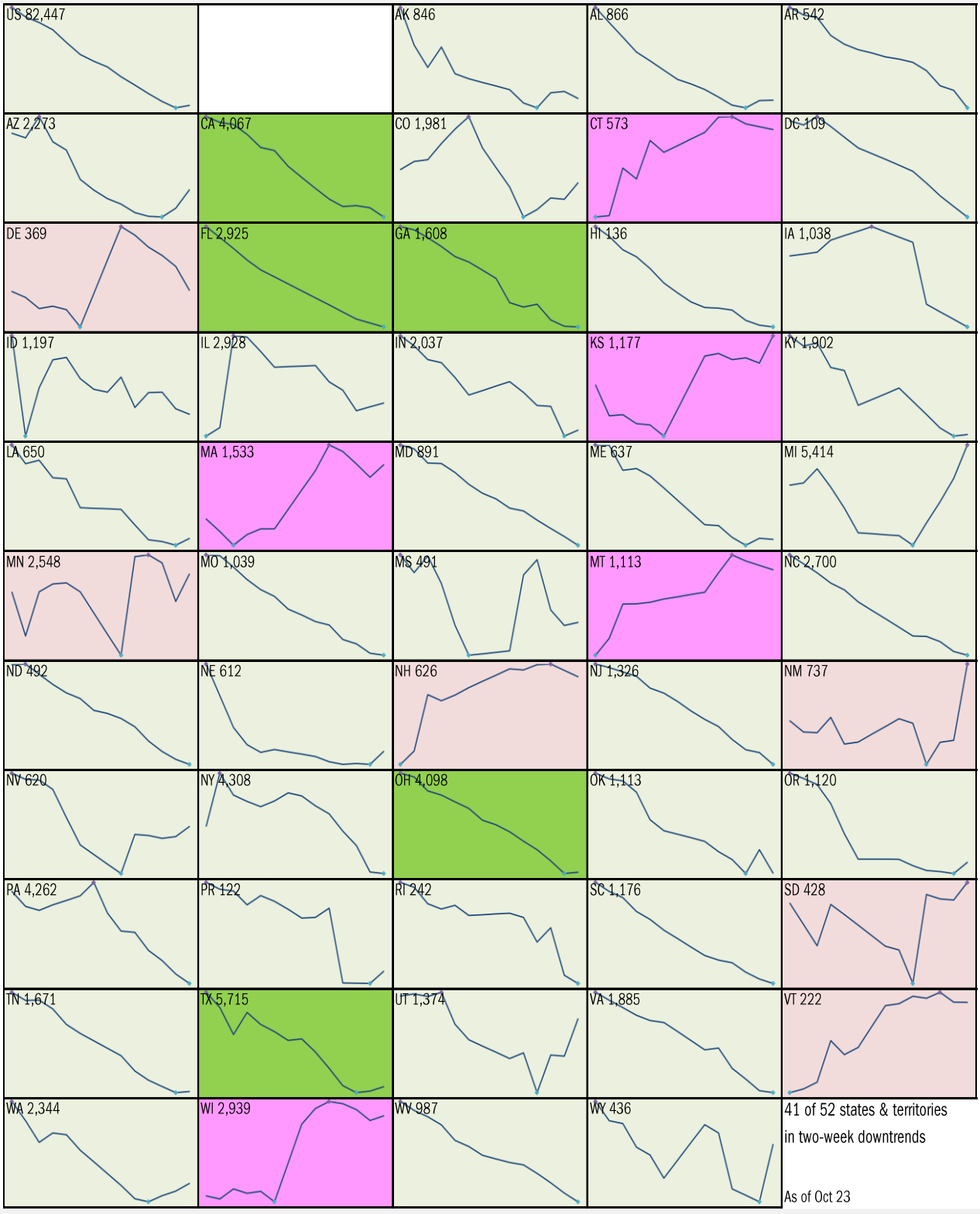



Source: Johns Hopkins, TrendMacro calculations

Requirement to Open Up America Again: 14-day "downward trajectory" in new cases

*14-day moving average, last 14 days  Most recent value displayed*  • High  • Low

Downward trajectory  Five best  Upward trajectory  Five worst

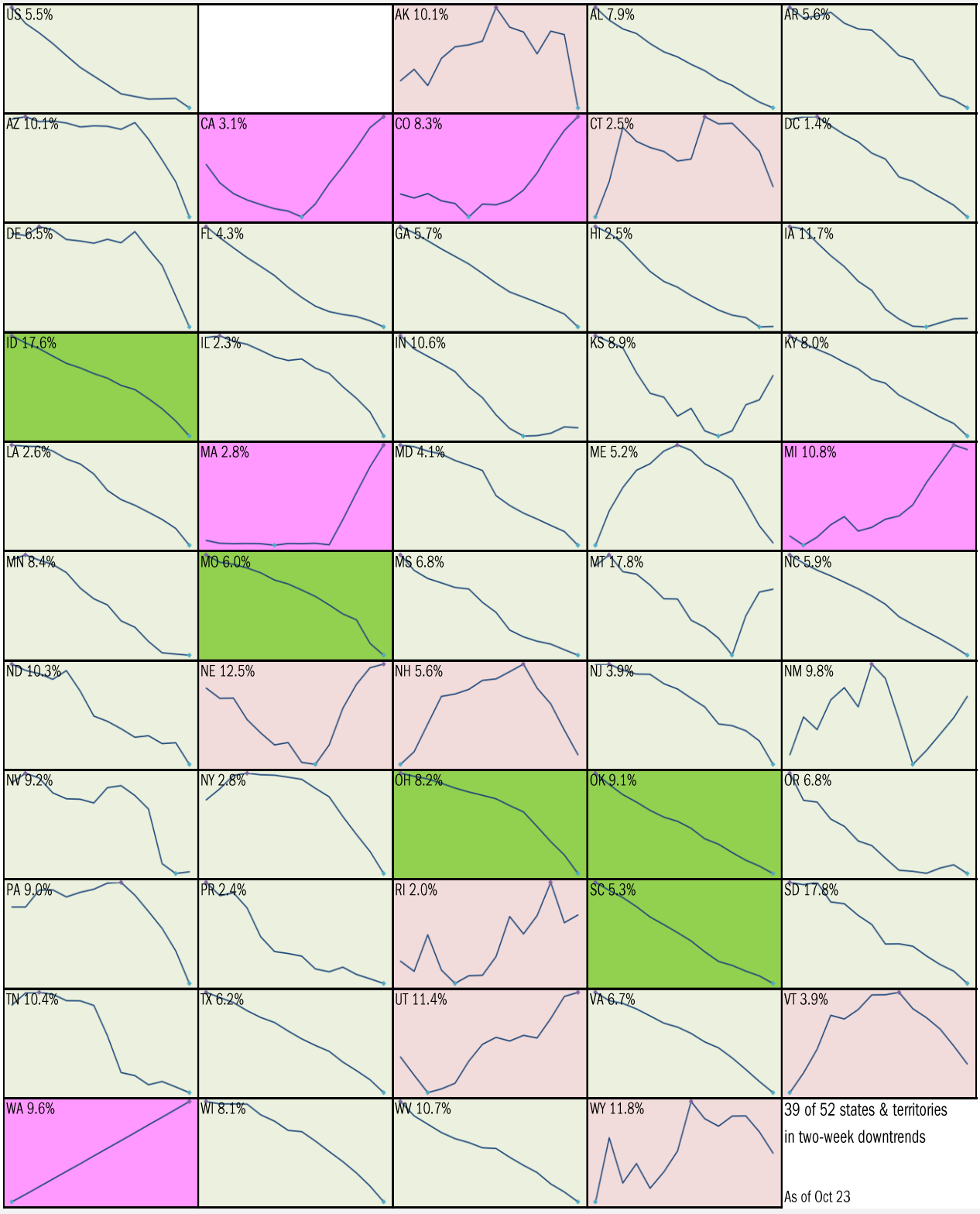



Source: Johns Hopkins, TrendMacro calculations

Alt requirement to Open Up America Again: 14-day "downward trajectory" in pos tests

*14-day moving average, last 14 days* *Most recent value displayed* • High • Low

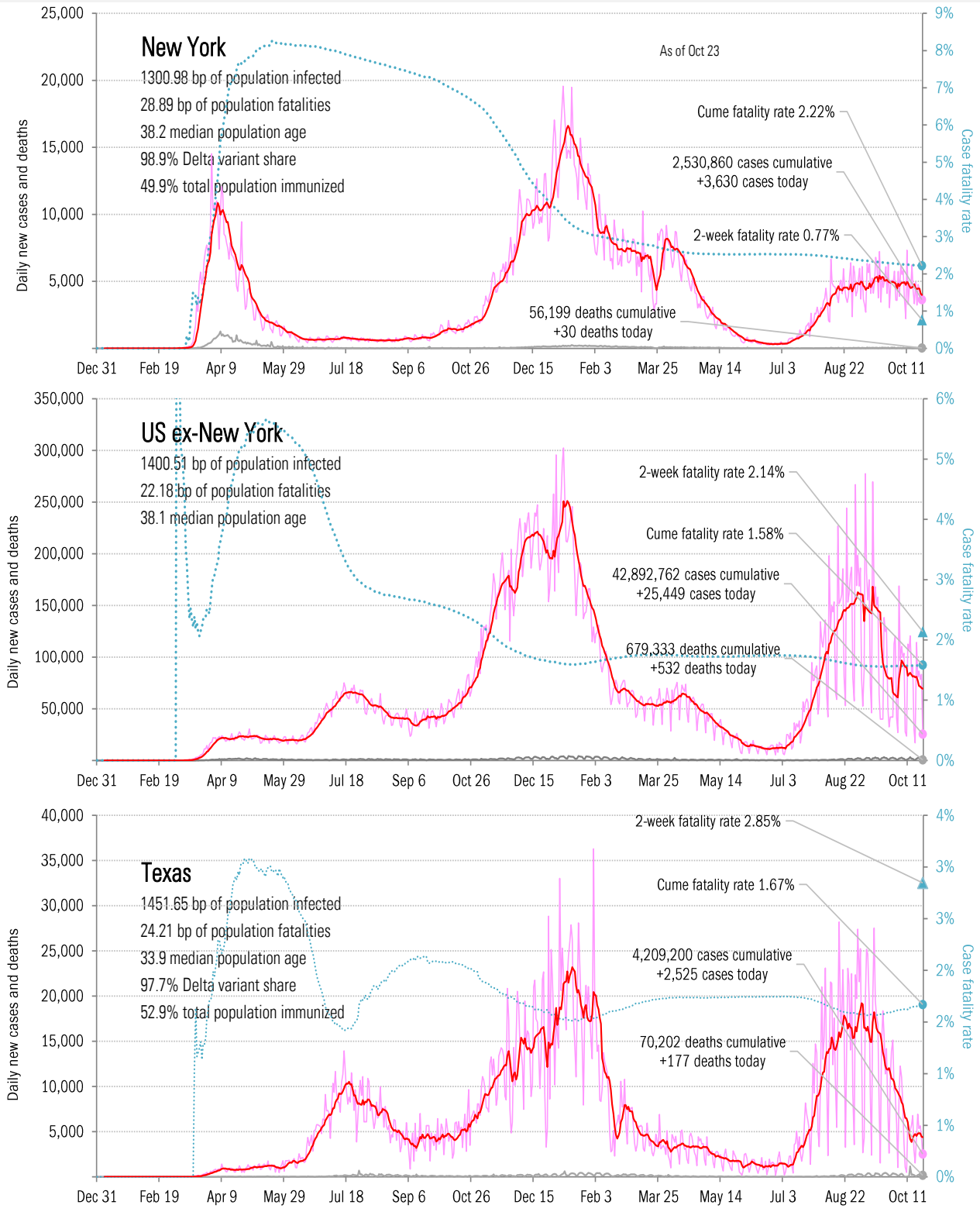
Downward trajectory Five best Upward trajectory Five worst




Source: Covid Act Now, TrendMacro calculations

## From Ground Zero to the Rio Grande

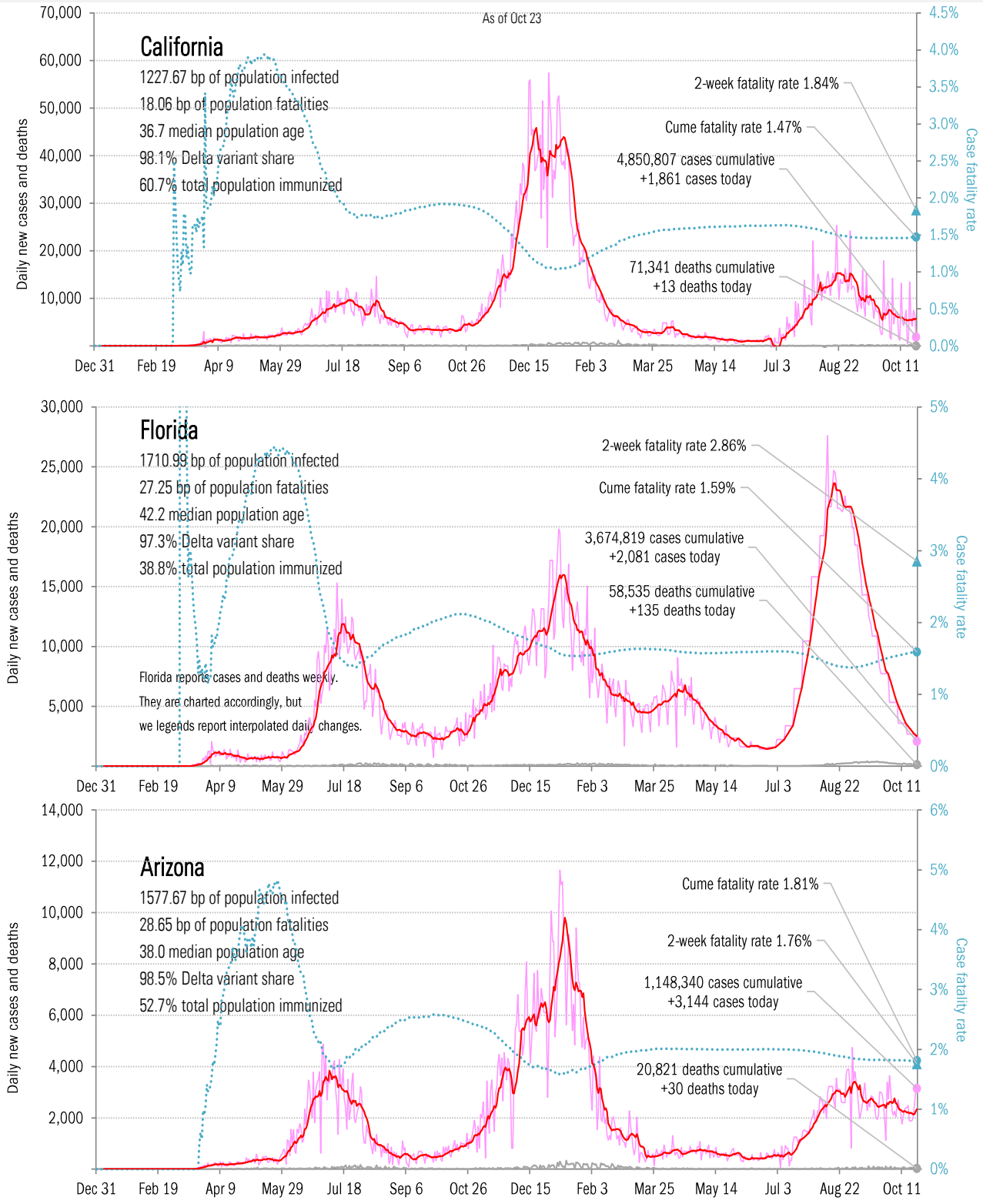
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## The sun-belt hot-spot states (other than Texas)

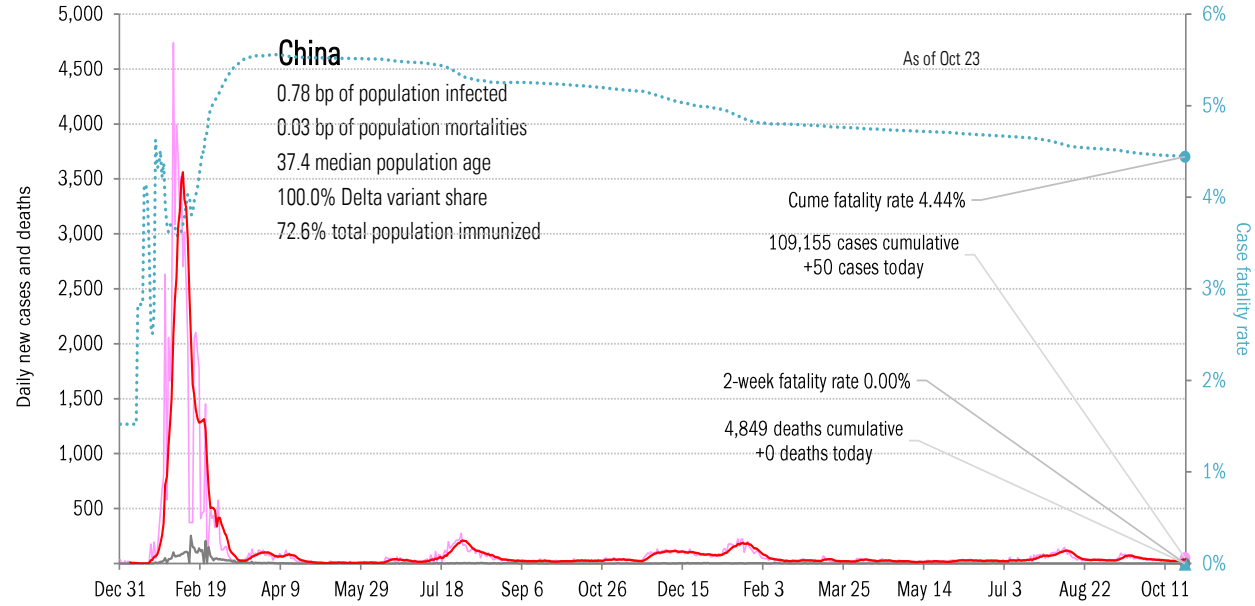
Cases: 7-day average and daily  Deaths: Daily

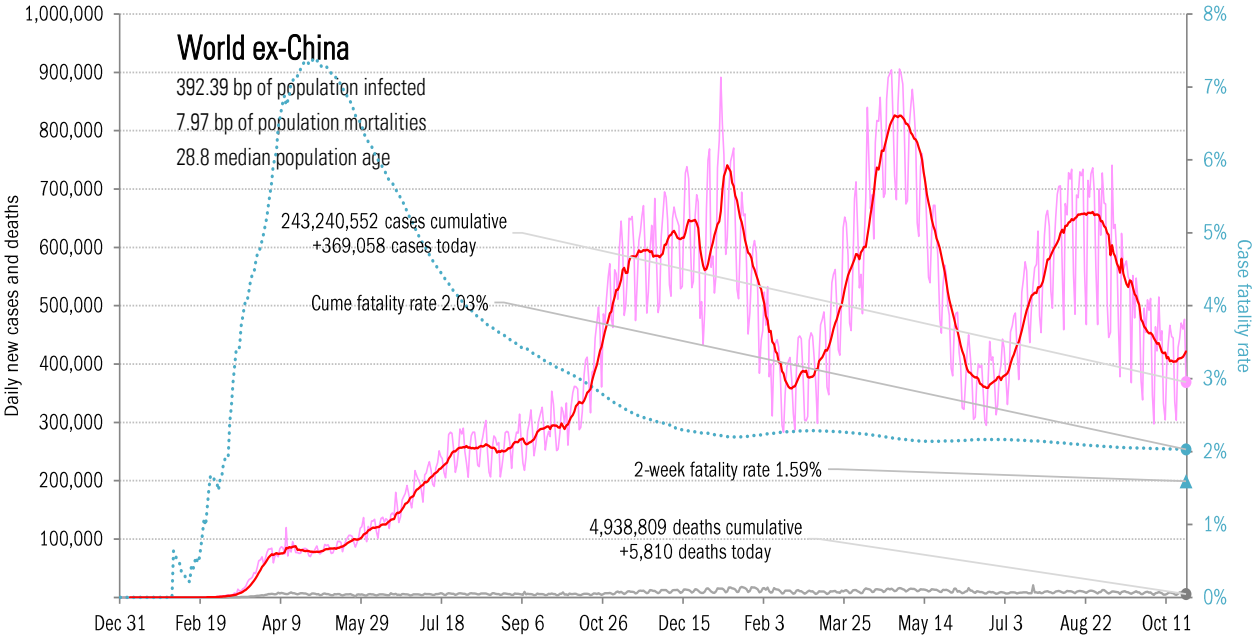



Source: Johns Hopkins, TrendMacro calculations

## Patient zero… and then everyone else

Cases: 7-day average and daily  Deaths: Daily

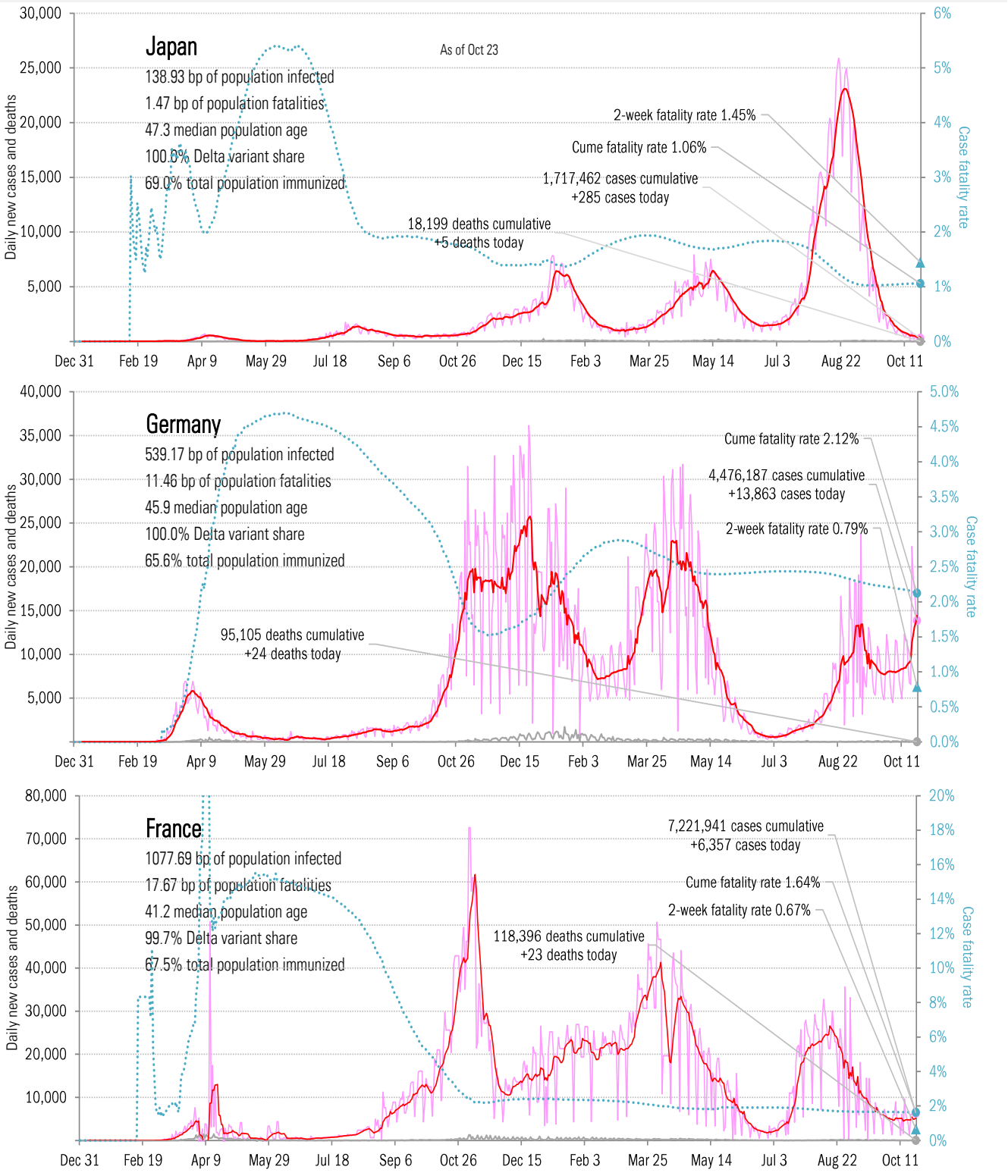



Source: Johns Hopkins, TrendMacro calculations

## Impact in the largest economies

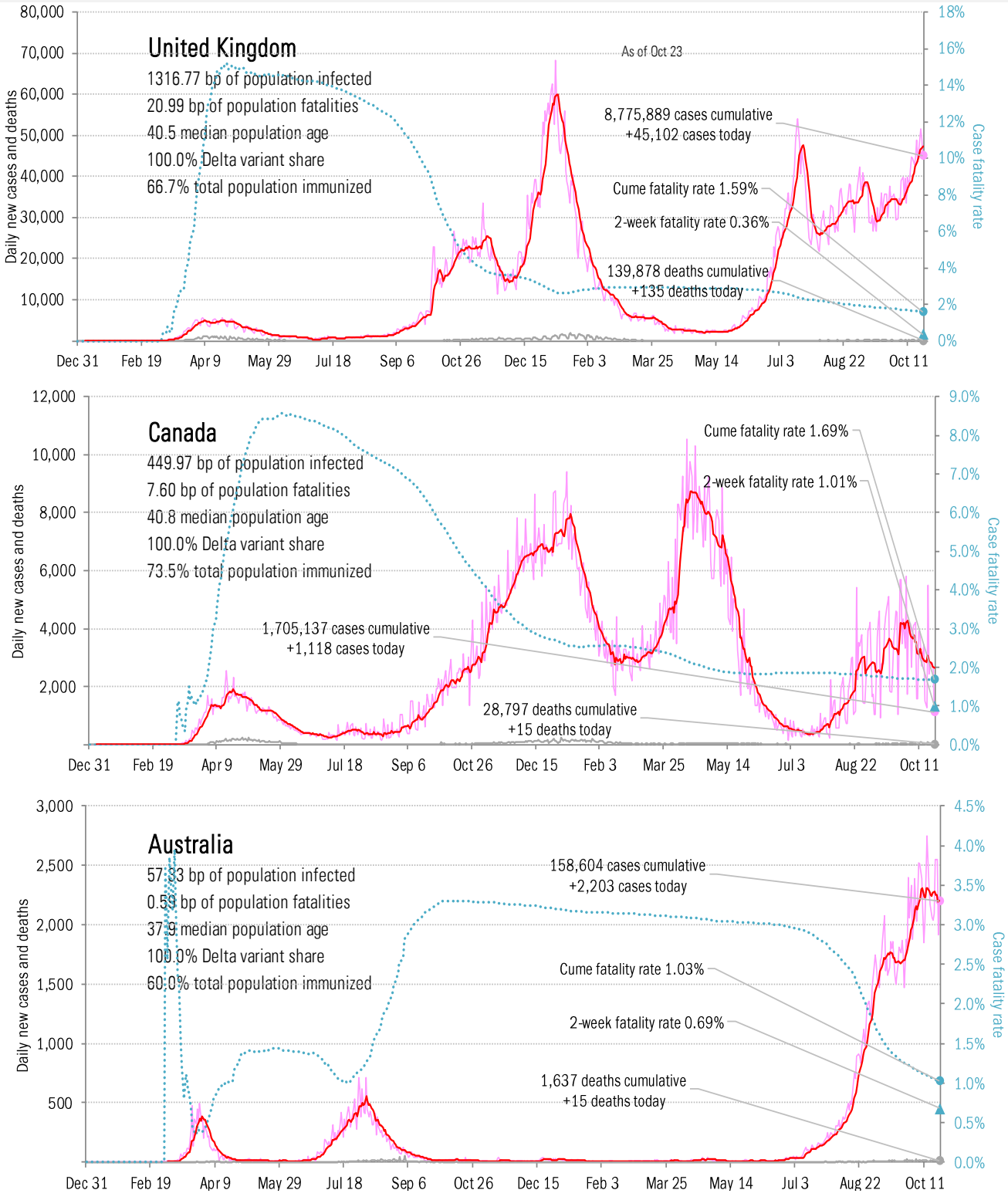
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in The Anglosphere

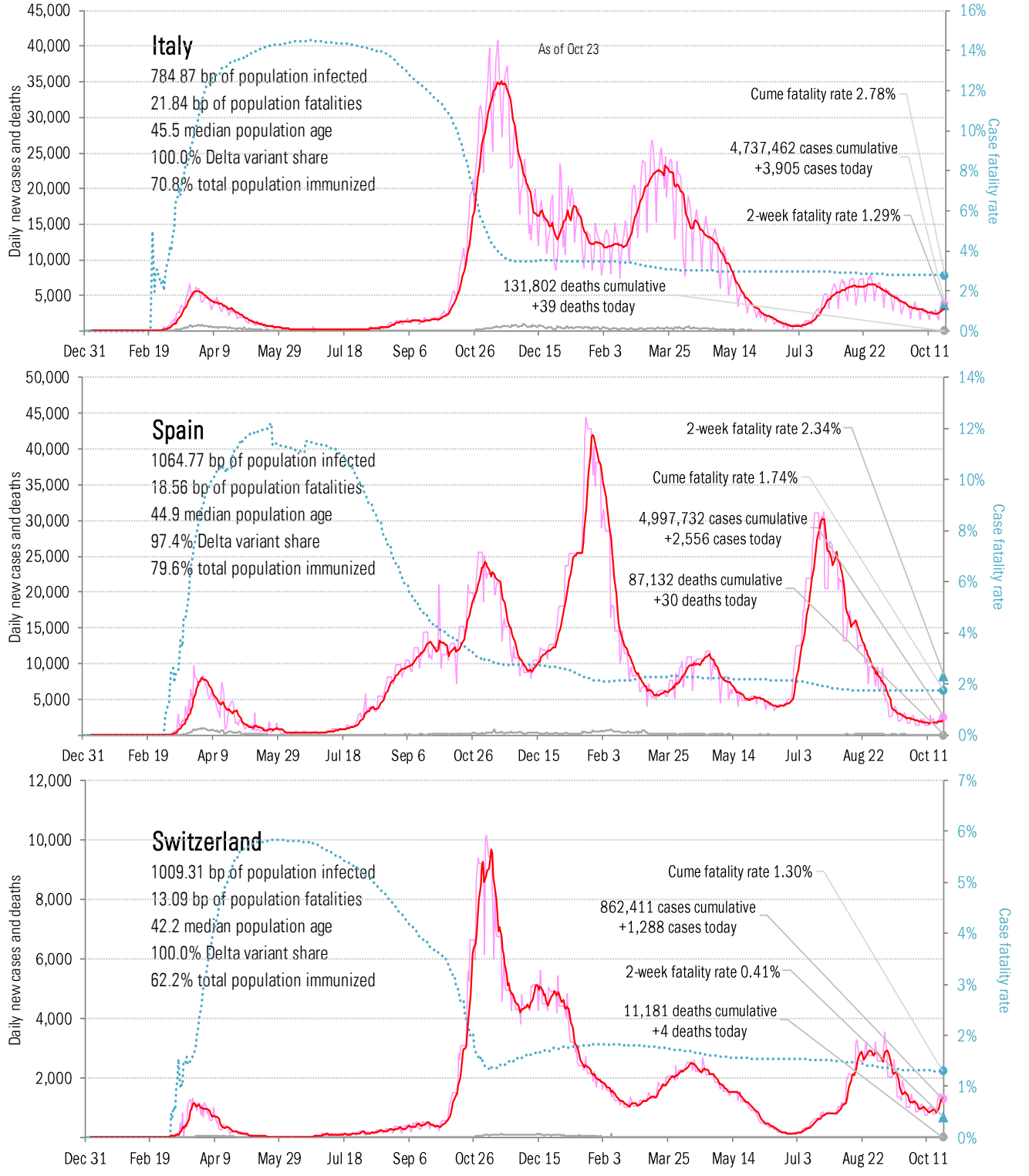
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in continental Europe

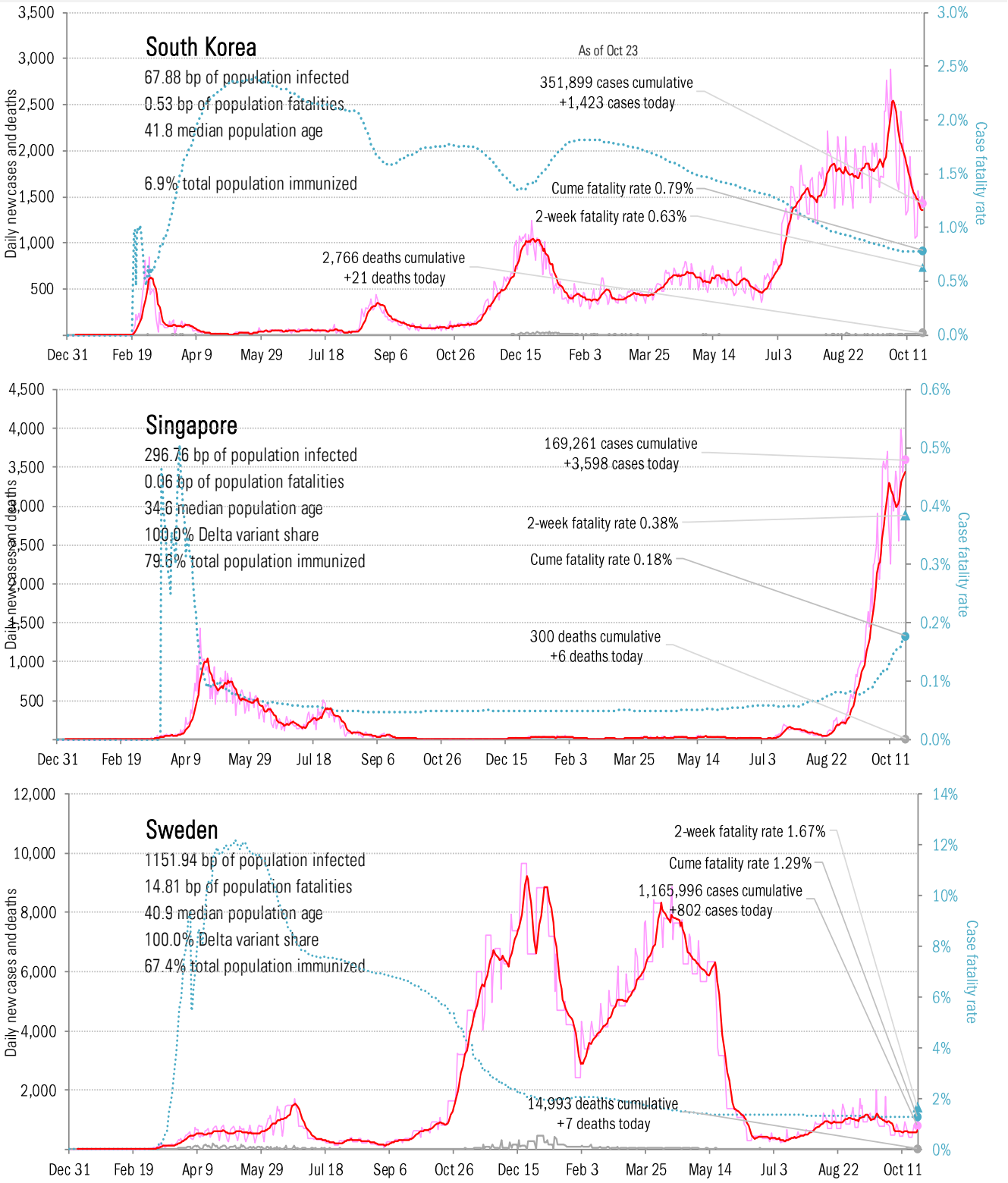
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in other hot-spots

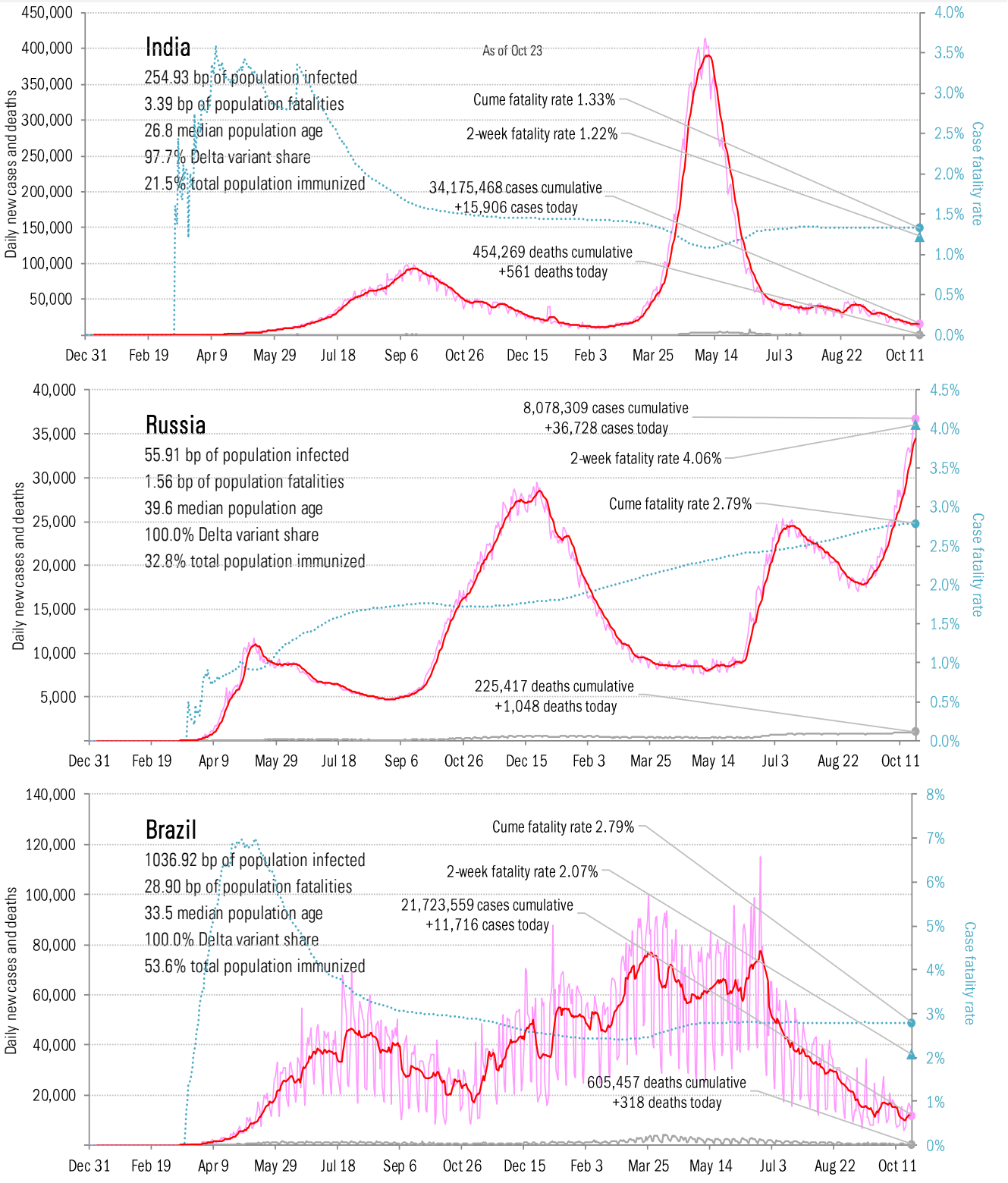
Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations

## Impact in the BRICs ex-China

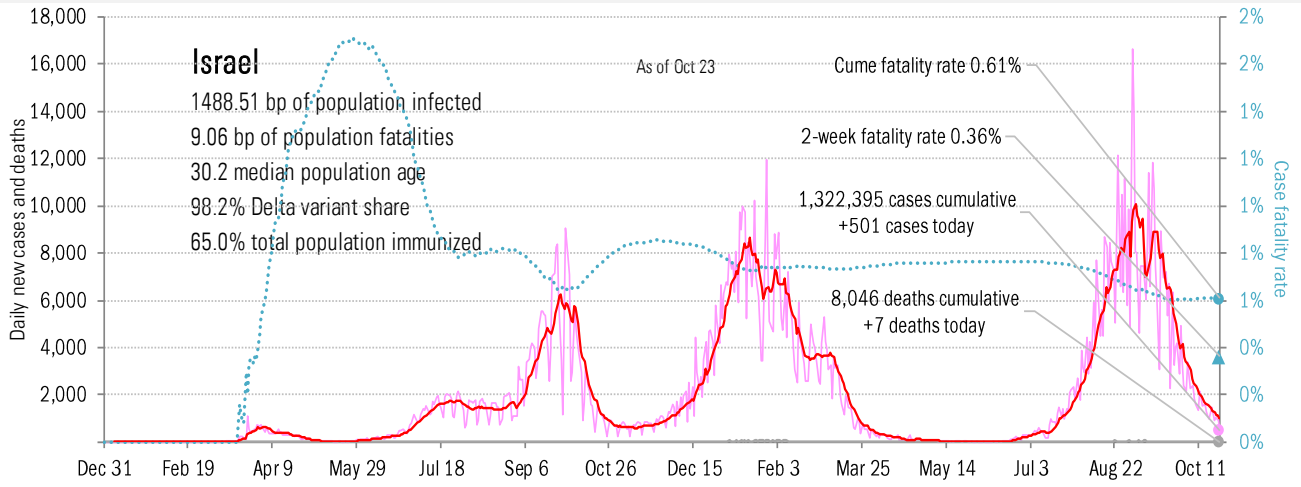
Cases: 7-day average and daily  Deaths: Daily

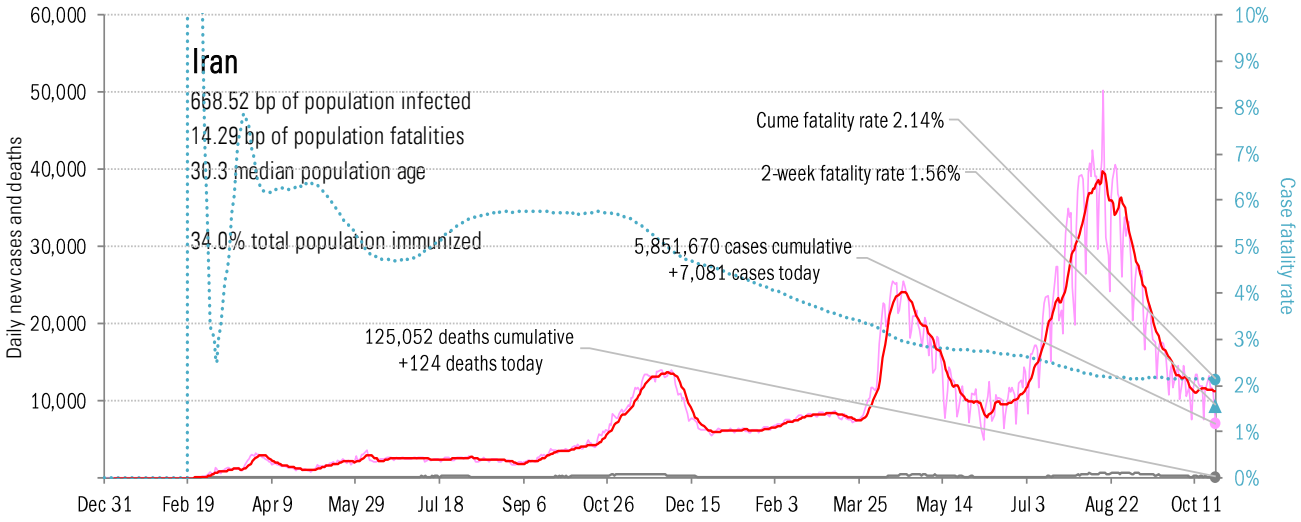


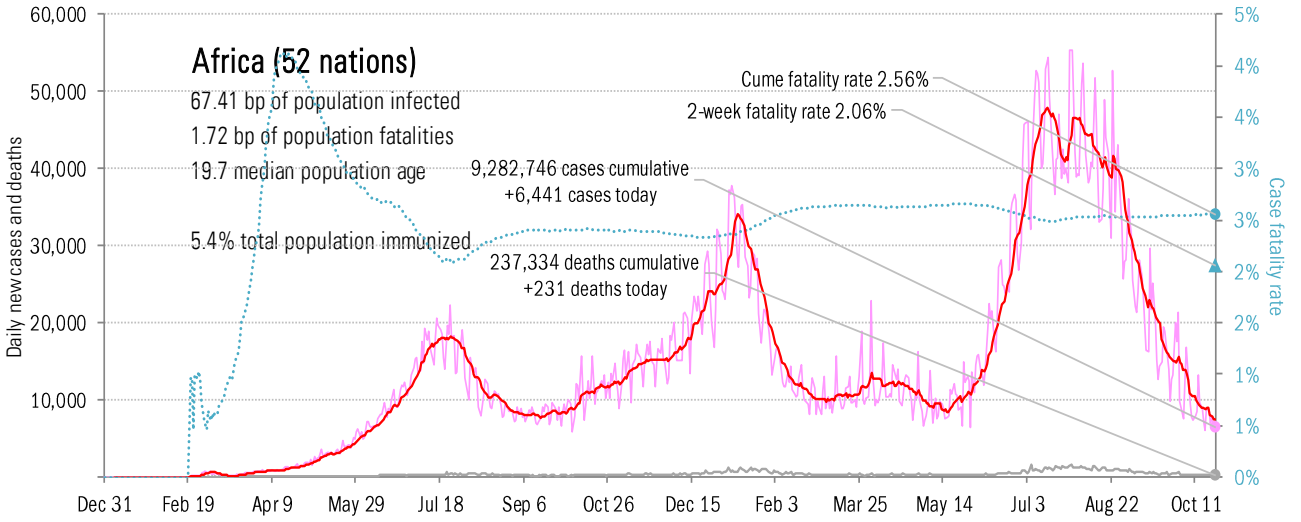

Source: Johns Hopkins, TrendMacro calculations

## Impact in the Middle East and Africa

Cases: 7-day average and daily  Deaths: Daily



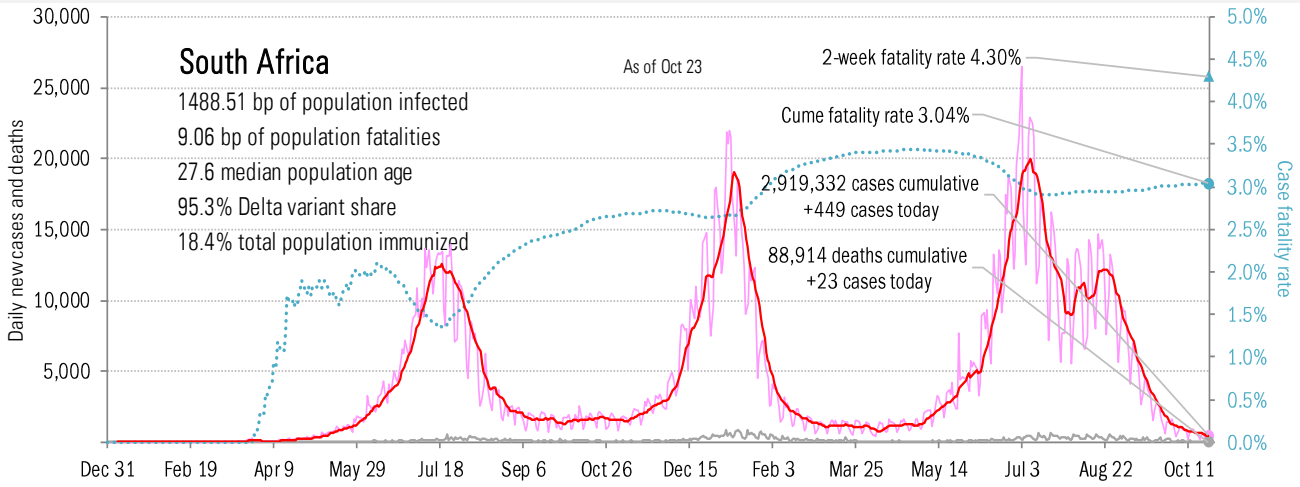




Source: Johns Hopkins, TrendMacro calculations

## Impact in Africa, continued

Cases: 7-day average and daily  Deaths: Daily




Source: Johns Hopkins, TrendMacro calculations